		ATTACHMENT TO:	0.57/4
			25X1
MENORANDUM FOR: Chief,	Technical Services Group	, NPIC	
ATTENTION : Chief,	Technical Operations Sta	ff, TSG/MPIC	•
SUBJECT : Monthly	Report for November 197	2	
A. SIGNIFICANT ITE'S OF	INTEREST FOR YOVE DER 1	972:	-
1. 120% Canability	for Zoon The	new 15X eyepiece is	25X1A
essentially complete and	due to be delivered in	December. It is reported	i.
to have high light trans	mission, flat field, low	distortion, and a	
field-of-view greater th	an the present 10X eyepi	eces. Assembly of the	
3% objective lens is und	erway and it is due to b	e delivered in early	
January.	•		
2. Scan & Search PI	Station The tra	ining of IEG personnel	25X1A
and the operational test	ing of the SSPIS was com	pleted on 13 November 197	2.
The instrument has been	turned over to IEG for o	perational use.	
3. Automatic Focus	System, Phase II	Preliminary PI search	25X1A
tests on operational fil	m were performed		7 ^{25X1A}
of IEG. He has informal	ly reported finding cons	iderable improvement of	_
non-stereo scan and sear	ch with the automatic fo	cus breadboardhis	÷ -
detailed report will be	issued shortly.		
		* .;	
3r · [Declass Review by NIMA/DO	OD .	
			25X1A
CLASSIFIED BY 013170 EXEMPT FROM GENERAL DECLASSIFICATION SCHEDULE OF E 0 11032, EXEMPTION CATEGORY: \$ 5B(1), (2), (3), (4), (5), (7), (7), (7), (7), (7), (7), (7), (7			
\$ 58(1), (2), (3) or (4) (circle one or more) AUTOMATICALLY DECLASSIFIED ON LYPOSSIBLE TO DETERMINE	SECRET		
(unless impossible, insert date or event)	,		
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	ATTACHMENT TO:	25X1
	SUPJECT: Monthly Report for Movember 1972	
	4. 15X Binocular Magnifier Late delivery of glass	25X1A
	blanks has extended component manufacturing to 29 November. An optical	
	bench test, assembly, and predelivery testing are scheduled to occur by	
	13 December.	
	5. High Canacity Processor Arrangements have been	25X1A
	made to have the dry silver High Capacity Processor tested and evaluated	
25X1	in March 1975. RED and Air Force personnel will perform pre-	
25X1A	acceptance tests at the plant in January 1973.	
25X1	6. Stereocomparator (Production Model)	25X1A
25X1A	The fabrication is 50% complete. PHD and RED personnel visited the	
	plant on 15 November to review progress. One of the items discussed	
	was a modification to introduce a projected reticle system.	25X1A
25X1A	7. Precise Mensuration, Phase III	
	is fabricating a projected reticle and an illuminated reticle	
	test fixture on which various types of projected and illuminated reticles	
	will be tested.	
25X1A	8. Mapholder The modified mapholder was delivered	
	on 21 November and is undergoing operational evaluation.	
25X1A	9. ON Inspection Table Preliminary acceptance test	
	reports indicate that sturdier spindles and higher capacity switches	
	are necessary. The contractor is studying the problem.	25X1A
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ATTACHMENT TO:	25X1
SUBJECT: Monthly Report for November 1972	
10. EXRAND Technical Task Team Report (C/RED/DB). The manuscript	
for the fifth annual Consolidated RED Project List was completed the	
week of 20 Movember. It will be printed and distributed to the community	
by mid-December 1972.	
11. Closed Circuit TV System for IEG/PFD (RED/SAB). Purchase	
requests for equipment are being compiled and it is anticipated that	
all orders will be placed by 8 December. ORD will lend MPIC part of	
the equipment: one TV camera and one monitor.	
12. Ground Coverage Display Phase I	25X1A
efforts have progressed to the point where it is possible to plan for	
to begin Phase II work about 1 January 1973. Completion of the	
contract should occur during the latter part of June.	
13. PI Survey Teams (RED/DB). The in-house survey of MPIC by RED	
personnel to determine interpreter's working procedures and equipment	
needs is well underway. DIA, IAS and SPAD have been interviewed, and	
IEG is scheduled next.	
14. Mensuration Parameters File The work has been	25X1A
completed by the contractor and the final report is being edited by	
PS/PMB. The results will be published as an MPIC report.	
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	25X1A
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25X1A

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	ATTACHTENT TO:	25X1
SUBJECT: Monthly Report for Yovenber 1972	*	981 -
		-
		25X
19. Feasibility Study for Automated Image Ass	sessment Eleven	ا 25X1ء
pieces of conventional imagery were sent on	26 October, These	25X1
same materials are currently being digitized and re	econstructed	25X1
and should be a	available for delivery	
on or about 1 January 1973. There is some of	doubt whether this	
material will be a true simulation of the output of	f the new system.	
20. Lenticular Rear Projection Screen	The elliptical	25X1
master ruling for the 30" x 30" screen is scheduled	d for completion in	٠.
late December. It is now anticipated that delivery	y of the two screens	
will occur early in March 1973.	· · · · · · · · · · · · · · · · · · ·	
21. Wide-Field, High-Power, Anamorphic Stered	oviewer Align-	25X1
ment of the optical system is progressing well. Ro	esolution readings	25X1
(end of Milestone 2 bench test) are scheduled for 3	5 and 6 December.	20/(1
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		ATTACH ENT TO:	
			25X1
SUBJECT: Monthly Report for November 197	72	,	
. 22. Five Year Plan (PED/SIS). TSG/	'RED's input	for the FY-1975 -	
FY-1979 Program Plan was completed.		· · · · · ·	
23. Imagery Interpretation Research	ı Program	The PAR	25X1A
for the proposed 1973 program was commlet	ed, approve	ed at TSG level and	
forwarded to the Planning Staff. The PI	Search Trai	ning Course was	
given to four IEG PI's during Movember.	Twelve othe	er PI's also parti-	•
cipated in the evaluation of this new cou	irse. The f	final report on	• 5.
this task is nearing completion and will	be delivere	ed in late December.	,000
24. Implementation Plan (In-Hous	se). A prel	ininary report	
covering the information gathered to date	e on Dry	Silver and Dry	25X1A
Diazo Implementation Plan has been writte	on. This re	port covers the	
raterial properties and does not address	any of the	other problems	
that must be resolved before these materi	ials are put	into operational	
use.			25X1A
25. Color Technology Support,			
Most of the problems related to the ormis	sion darrage	on the high	25X1A
resolution color microfilm found during p	processing t	save been eliminated,	
and the previously planned operational to	est will be	conducted during	-
the month of December.			
26. Color Training (RED/SIS). A to	vo-hour cour	se on the Psychophysics	,
of Color Perception is nearing completion	n. The coun	se is scheduled for	
presentation to groups of Center personne	el in early	January.	25X1A

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	25X1
SUBJECT: Monthly Report for November 1972	
. 27. Marrowband Color Viewer Evaluation (MBCV) (MED/SIS). During	
the course of the evaluation of the prototype MECV, several Zoom	25X1
were tested for their ability to transmit broadband and narrowband	
illumination. Unexpectedly, large differences in their ability to trans-	
mit light have caused the further evaluation of the MBCV to be held in	
abeyance until three scopes with comparable light transmittance charac-	
teristics can be located.	
28. Spectral Irradiation Produced by Electronic Flash (RED/RB).	
Consultation services were provided to TSG/ESD and SS/SD on the measure-	
ment of spectroradiometric and related characteristics of a photographic	
strobe unit cuployed by the Center.	
29. FY-73 R&D Program (RED/SIS). During November the following	
items were surfaced and will affect the orderly progression of the	
FY-73 R&D program and operating budget:	
a. Very Hi Resolution Printer formerly programmed for	
January obligation will be delayed pending the results of a	25X1
project of a related nature	25X1
b. The modification of the Printer to accept uncon-	25X1A
ventional material has been tabled until the Dry Silver Processor	
tests are complete	
c. Anticipate the need for an additional in February or	25X1
March to nodify the Processor.	25X1A
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25X1

	ATTACHMENT TO:	25X1
	SUBJECT: Monthly Report for November 1972	
9	d. Will need an additional to develop Improved Fiber	25X1
	Onties Cables for PFD. Programmed for March.	8-
	e. Will need an additional in December for a	25X1
25X1	15X Eyepiece for the Zoom	25X1
25X1	f. Another needed in January to fund the PI Stage Reticle.	·
25X1	g. An additional for a follow-on to the Object Recognition	
	Guide. PAR now in process.	, e
25X1A	h. Another Collateral Camera Tests	
25X1A		
	i. Phase I of the Materials Handling Study will expend	25X1
25X1	of the total allocation.	
	j. The Viewing Systems for Unconventional Imagery project	
	implementation will be delayed at least through January 1975.	
	k. The Conventional Exploitation Equipment project has been	
	delayed and is now programmed for April 1973.	
	1. The Synergistic Effects of IP/SLR project has been delayed	
,	until June 1973.	
	m. The Simulation Model Design project funded at has	25X1
4	heen suspended.	
	30. Digital Image 'laripulation Hardware The final	25X1A
25X1A	delivery of new hardware built	25X1A
25X1A	was made on 8 November personnel continued to debug	25V1A
	and test hardware components during the month.	25X1 <i>A</i>
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	,	ATTACHE ENT TO:	25X1
		SUBJECT: Monthly Report for November 1972	
	•	. 31. Analysis of Software/Hardware Twenty	25X1A
25X1A		copies of the report documenting hardware were delivered this	25X1
		month.	
		32. Photoscience Support Two work	25X1A
		orders were authorized under this program. One involved an evaluation of	•
		viscous photographic developers while the other involved an investigation	
		of a special chemistry to reduce contrast in very high resolution, silver	.*
		halide film. Results of these investigations are due in early 1973.	
		33. Minimum Contact Densitometer The Center's	25X1A
		automated color densitometer was delivered and is being checked out.	
		34. Colorinetric Juage Correction (RED/RB). Project planning	
		on Colorimetric Image Correction was continued with the outlines of RED,	
		AID, and contractor support defined.	
		35. Abbreviated Color Rendering Index Standard (RED/RB). A pre-	
		liminary outline of an Abbreviated Color Rendering Index Standard for	
		microscope transmission was prepared.	
25X1A		36. Software (ORD). Two PI operational problems were pro-	
25X1A		cessed at ORD using the software. Additionally, two more PI requests	4
		were received in RB.	
25X1		37. Software (RED/RB). AID and RED/RB personnel continued	
25X1		assembling and debugging new software.	
			25X1A
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	ATTACH MENT TO:	25X1
	SUBJECT: Monthly Report for November 1972	25/1
	33. DDP/TSD Support (RED/RE). A lens was tested in terms	25X1A
	of high contrast resolution for TSD. The results indicate that the	
	lens is inferior to existing, commercially available lenses.	
057/44		
25X1A		
		.*
	40. Diagnostic Computer Program Documentation has been	25X1A
25X1	received and distributed submitted a claim of	
25X1A	for time lost because of the computer	25X1A
	downtime.	
	41. Engineering Support for Target Indexing Device Cooling	25X1A
	air was supplied through back of the TID computer. Air	25X1A
	conditioning deficiency is being corrected in room 2N-147. Two doors	
	were removed from the TID; baffles and shrouds were installed to reduce	
	air turbulence.	* -
	42. Film Tearing Problem (RED/RB). A number of rolls of original	
	negative material have been torn when rapidly unwound due to points where	
	the film was stuck together. The problem appears to occur mainly in ON	
	material, especially film which has passed through liquid gate printing,	25X1A
	In a simulated test it was found that the liquid gate liquid did not	
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VISVOIDANT TO:	05V4
SUBJECT: Monthly Report for November 1972	25X1
angular. Continty about for november 1072	
cause sticking, but a drop of water caused sticking great enough to result	
In a tear. The most likely source of water is the compressed air used	
to blow the liquid gate fluid from the film. The filter in the air line	
probably needs replacing with a more sophisticated set of filters.	
Problems with contaminated compressed air have been noted in other	
parts of the Center.	
	•
B. MEETINGS, BRIEDINGS, FTC.	0EV4
1. Automated Exploitation Techniques	25X1
	25X1
7 November 1972 to review capabilities and to discuss tentative	
reas of work under the proposed no-cost RGD agreement. Two Task Team	
neetings were conducted in TSG/RED to discuss capabilities and	25X1
related R&D tasks.	25X1
2. Ontical Power Spectrum.	
priefed	25X1
on the current status of the OPS contract and areas of	
interest for future research and applications.	
3. met with	25X1
ORD, on 17 November to discuss the Program	
and Image Processing Panel Ceport.	25X1
	25X1
4. Image Science Research. On 8 Movember 1972,	25X1
briefed	
	25X1
·	25X1
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25X1

25X1A

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	ARTACLEMENT TO:	25X1
SHBJECT: Monthly Report for Movember 1972		
	· · ·	
proposed development objective for Image Sc.	ience Research. Also in	
attendance		25X1A
5. New Generation Microdensitometer.	represented RED	25X1A
at a series of meetings		25X1A
to assist in proposal evaluation of a new g	eneration microdensitometer	
which the Air Force is considering.		٠
6. Resolution Targets. br	iofed RED, APSD, and FSD per-	
sonnel on new aspects and problems of conve	ntional resolution target	
testing, and the program which he proposes	to help resolve these diffi-	*
culties.		
7. Offutt PI Class.	briefed the Offutt PI Class	
on 6 Movember 1972, and the DIA Senior Inte	lligence Course on 13 November.	
8. Seminar.	Tutorial Seminar on	25X1A
Color Theory and Applications.		25X1A
9. TID. On 21 November		
attended a meeting to	discuss feasibility of using	
TID for production use by DIA. The conclus	ion was that the TID could	
not be used without extensive modification	which would equal cost of a	f.
new model.	•	
10. TID. On 15 November, C/RB et al b	oriefed on the	25X1A
TID. The TID was demonstrated in a "single	shot mode", where decisions	
are displayed on the panel. On 29 November	DCh/TSG and the Special	
Assistant/TSG were given a similar demonstr	cation.	25X1A
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25X1A

25X1A

25X1A

25X1A

		ATTACHMENT TO:	0EV4
	CURTICITY Manda I. Danant for Mayombar 1972		25X1
	SUBJECT: Monthly Report for Movember 1972	r	
	C. D.O.'s, PROPOSALS, AND PARS		
25X1A	appropriate under selection and tracking an electric collection and electric and el	been received to	
	develop a new microscope sensor head for the previ-	ously developed photo-	
· 	meter.		
	2. UV State-of-the-Art Review The fin	al report on this	25X1/
	project was delivered during this reporting period		
	3. Feature Analysis Comparison and Evaluation	Library	25X1/
	proposal for implementation of computer programs d	eveloped under DPDS on the	,
25X1A	was received. This improve	d program package is	
	called FACEL for Feature Analysis Comparison and E	valuation Library.	
	D. PERSONNEL		_
25X1A			
	E. SIGNIFICANT ITEMS FOR DECEMBER:		
25V1A	1. Model Photography will be delivered t	o PR	
25X1A	laga di Prisiriani, pularratar dal ratar del prisiri dinari, con ridari di distributi della		• •
		American grammed in a constructive is not taking unit	
	Study.		0EV4/
			25X1A
			25X1
			20/(1/
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4.				work out
the details of the brief			1	
5. hardware	interface	e for		9-track tape
' deck) will be delivered				
6. TID to be not his	alled on 31 De	ecember 1972	•	
·				
	nesear		uty Chief ering Divisi	on, TSG/NPIC
Distribution: Orig & 1 - TSG/TOS 1 - TSG/RED				
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